

ROCKETS

REFERENCE
FIELD RETURN MANUAL

TYPES

- AT-4
- Light-weight Anti-armor Weapon (LAW)
- Shoulder-Launched Multi-Purpose Assault Weapon (SMAW)

AT-4

- C995 •Cartridge and Launcher, 84mm M136 AT-4

C995

CARTRIDGE AND LAUNCHER, 84MM

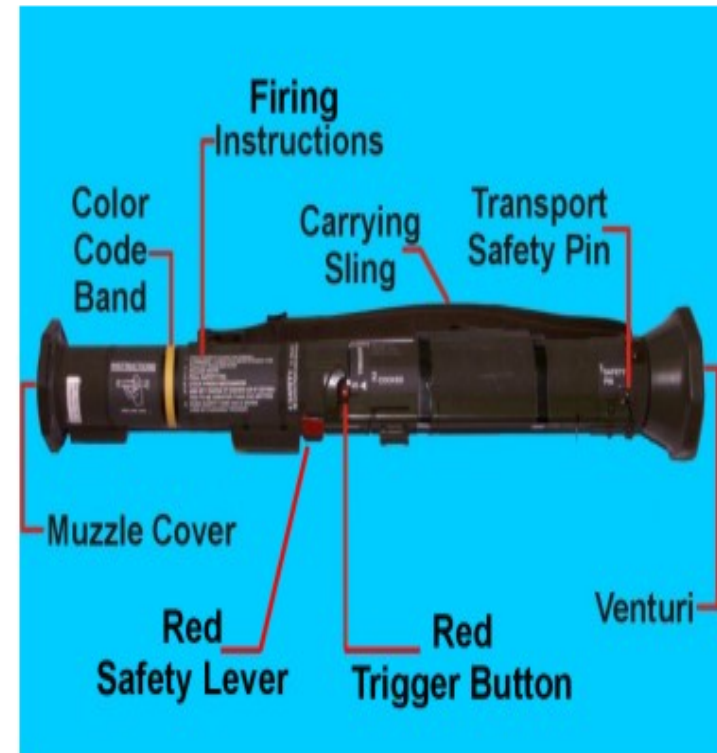
M136 AT-4

Item Description

The Cartridge and Launcher, 84mm M136 AT-4 (DODIC C995) is mainly employed against armored personnel carriers. However, it can be used against battle tanks when fired at the flanks or rear. It can also be employed as an assault weapon against bunkers, field fortifications, and other hard-point positions. Issued as one round of ammunition, the AT-4 tactical round is a self-contained, lightweight, disposable weapon consisting of a launcher and cartridge.

The launcher is fiberglass-reinforced with a smooth bore barrel that is environmentally sealed. The AT-4 is equipped with an aluminum venturi, a firing mechanism with three safety devices, front and rear sights, and a carrying sling. The cartridge assembly consists of the projectile and the cartridge case. The projectile is a free flight, fin-stabilized warhead. It is pressed and cemented into the cartridge case. The cartridge case contains a double-base propellant, percussion primer, and igniter.

The AT-4s warhead features behind-armor secondary effects. After the projectile penetrates the vehicle's armor protection, a high-pressure incendiary effect occurs. This action, which is accompanied by a blinding flash, is designed to effectively knock out the crew of the enemy vehicle, even if the penetration hole is relatively small.



Cartridge and Launcher, 84mm M136 AT-4
(DODIC C995)

SAFETY PRECAUTIONS

Safety Precaution

WARNING

To prevent injury or death, ensure the Transport Safety Pin is in place and the Cocking Lever is in the "SAFE" position prior to handling. If unable to reset to "SAFE" position, notify the OIC/NCIC immediately.

The DODIC C995 is classified as 1.1E munitions and is safe to handle using standard precautions. Care should be taken during handling not to separate the Transport Safety Pin from the launcher.



PACKAGING

Packaging

The packaging configuration for DODIC C995 is given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container
1315-01-245-4950	M136 (AT-4)	Packaged 5 cartridges and launchers/wooden box , individually wrap in clear plastic barrier bags, 4 boxes/wood pallet	None	5/Wooden Box
1315-01-486-2293	M136 (AT-4)	Packaged 5 cartridges and launchers/wooden box, individually wrapped in metallic type barrier bags, per plywood box, 4 boxes/wood pallet	None	5/Wooden Box

OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot missing or illegible	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container, crushed container	Major	Proceed to Individual Item inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Individual Item inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Individual Item inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes etc., or anything other than original or standard ammunition containers.
- (3) Follow local operating procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container with Markings
(DODIC C995)



Opened Outer Container
(DODIC C995)

INNER CONTAINER CHECKLIST

Inner Container

The Cartridge and Launcher, 84mm M136 AT-4 is not packed in an inner container. There are no inspection criteria for inner container for DODIC C995.

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot/serial number cannot be determined.	(1)
Serial number missing or illegible	Major	Follow local ASP procedure for disposition.	
Other markings or warning labels missing, illegible, or incorrect	Major	Follow local ASP procedure for disposition.	
Barrier bag missing or damaged	Minor	Follow local ASP procedure for disposition.	(1)
Transport safety pin missing	Critical	Notify OIC/NCOIC immediately.	
Transport safety pin lanyard missing or damaged	Critical	Ensure safety pin is securely in place. Replace lanyard if possible. Notify OIC/NCOIC immediately.	(2)
Cocking lever is in "COCKED" position	Critical	Ensure the transport safety pin is securely in place. Notify OIC/NCOIC immediately.	(3)
Cocking lever broken	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Cocking lever missing	Critical	Notify OIC/NCOIC immediately. It is difficult to determine whether the AT-4 is cocked if missing cocking lever.	
Front/rear sight covers or sight assemblies damaged or missing	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Launch tube perforated, broken, cracked, crazed, dented, bent, or gouged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Fiberglass tape which secures the rear sight assembly and the forward safety catch lever to the launcher tube is broken, damaged, or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Shoulder stop broken or damaged	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Carrying sling missing or damaged to the point that it is not functional	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Muzzle cover ruptured	Minor	Ensure bore is clear of obstructions. Follow local ASP procedure for disposition.	(4)
Venturi obstructed or foreign material present	Minor	Clean venturi. Follow local ASP procedure for disposition.	
Rear seal ruptured or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rear seal cracked or damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	

INDIVIDUAL ITEM CHECKLIST

(CONT)

Major rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place ammunition in a holding area. Follow local ASP procedure for disposition.	
Any part of the weapon missing, damaged, or inoperative (except as otherwise noted)	Major	Place ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

Notes:

- (1) If the barrier bag is intact, do not open.
- (2) Ensure the lanyard is attached to the transport safety pin and rear carrying sling bracket. The lanyard should be wrapped around the launcher clockwise (as viewed from the rear) and the transport safety pin should be inserted into the retainer hole counterclockwise.
- (3) Ensure transport safety pin is properly inserted and move the cocking lever to the "SAFE" position.
- (4) Inspect inside the tube for foreign objects and attempt to remove.

INDIVIDUAL ITEM CHECKLIST

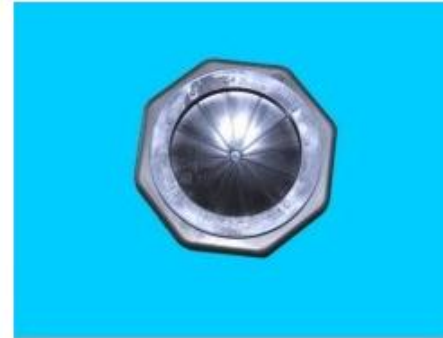
(CONT)



Cocking Lever in Safe Position
(DODIC C995)



Sight Covers
(DODIC C995)



Muzzle Cover
(DODIC C995)



Venturi
(DODIC C995)



Front and Rear Sights
(DODIC C995)



Shoulder Stop
(DODIC C995)



Drawing and Lot Numbers
(DODIC C995)



Serial Number
(DODIC C995)

REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TM 9-1315-886-12	Operator's and Unit Maintenance Manual, Launcher and Cartridge, 84 Millimeter: M136 (AT4)
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

LIGHT-WEIGHT ANTI-ARMOR WEAPON (LAW)

- HA29 •Rocket, 66mm, HE, M72A7 LAW with Graze
- HA21 •Rocket Assembly, 21mm M72AS LAW Trainer

HA29

ROCKET, 66MM, HE

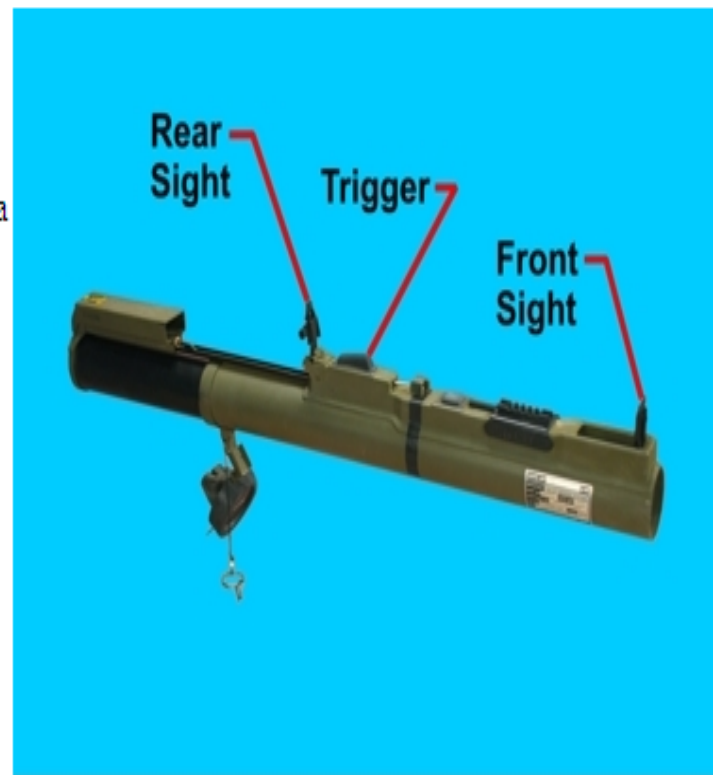
M72A7 LAW WITH GRAZE

Item Description

The 66mm, M72A7 Light-weight Anti-armor Weapon (LAW) (DODIC HA29) is a shoulder launched, close-combat, rugged, direct fire weapon. It is issued as an individual round of ammunition consisting of a self-contained, light weight, disposable launcher and a rocket with a high explosive shaped charge warhead. It is employed primarily against light armored vehicles and may also be effectively used against other vehicles, bunkers, pill boxes or crew-served weapon platforms.

The M72A7 is part of the family of improved M72 rockets which includes the M72A4, M72A5 and M72A6. These models, along with the M72A7 have been designed to differ only in the warhead explosive characteristics so that they can all be used with the same launcher system without need for modification.

The M72 launcher assembly is a light-weight, telescoping, single-shot, throwaway structure consisting of an aluminum inner tube, fiberglass composite outer tube, tube detenting device, mechanical sight system, firing mechanism, safety interlocks, integral rear cover and shoulder rest, carry sling with front cover, and MIL-STD-1913 compliant rail for mounting night vision devices.



**Rocket, 66mm HE, M72A7 LAW Extended
(DODIC HA29)**

SAFETY PRECAUTIONS

Safety Precautions

WARNING

Ensure that the front-end cap is properly secured to the rocket casement during handling. Notify OIC/NCOIC if rockets are returned without the front-end caps

CAUTION

Do not fully extend the telescoping tube during inspection as this will break the water-tight seal which could allow moisture intrusion into the launcher.

The DODIC HA29 ammunition is classified as 1.1E munitions and is safe to handle using standard precautions.



PACKAGING

Packaging

The packaging configurations for DODIC HA29 are given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container	Pallet
1340-01-497-7630	M72A7 LAW	39 rounds in banded metal frame on one pallet. Each round sealed in individual metal tubes.	None	Each round is sealed in a metal tube.	Metal Pallet/39
1340-01-519-8759	M72A7 LAW	Five tactical rounds per inner container. Three inner containers per outer container. Three outer containers per pallet.	Five tactical rounds packaged in fiberboard box and surrounded by polyethylene barrier bag.	Three inner containers packaged in a wire bound wood box.	Wooden Pallet/3

PALLET CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Outer Container inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Broken banding or improper banding	Major	Reband pallet	
Improper pallet build (stacked too high or too wide)	Major	Reband pallet with proper stacking of boxes	
Broken boxes on pallet	Major	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required. If item is exposed, then remove broken box and inspection item as described individual item	
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined	(2), (3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

Notes:

(1) At a minimum, the markings should include the [DODIC, lot number, NSN, and quantity](#).

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.

PALLET CHECKLIST (CONT)



OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Inner Container inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate both outer and inner container, crushed container	Major	Proceed to Individual Item inspection .	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container
(DODIC HA29)



Opened Outer Container with
Packing
(DODIC HA29)

INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
NSN 1340-01-519-8759			
Lot number missing or illegible	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Severe punctures that appear to penetrate container or crushed container	Major	Proceed to Individual Item inspection .	(2)
Dents, buckles, heavy rust/corrosion, or other surface damage	Minor	Proceed to Individual Item inspection .	(2)
Opened container or missing factory seals	N/A	Proceed to Individual Item inspection .	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

Notes:

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, [lot number](#), NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedure for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot/serial number cannot be determined.	
Serial number missing or illegible	Major	Follow local ASP procedure for disposition.	
<u>Other markings</u> or warning labels missing, illegible, or incorrect	Major	Follow local ASP procedure for disposition.	
Transport safety pin missing	Critical	Notify OIC/NCOIC immediately.	(1) (2)
Transport safety pin lanyard missing or damaged	Critical	Ensure safety pin is securely in place. Replace lanyard if possible. Notify OIC/NCOIC immediately.	(1) (2)
Safety lever is in "ARMED" position	Critical	Ensure the transport safety pin is securely in place. Notify OIC/NCOIC immediately.	(2)
Safety lever broken	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Safety lever missing	Critical	Notify OIC/NCOIC immediately. It is difficult to determine whether the AT-4 is cocked if missing cocking lever.	(2)
Front/rear <u>sight covers</u> or <u>sight assemblies</u> damaged or missing	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Launch tube perforated, broken, cracked, crazed, dented, bent, or gouged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Shoulder stop broken or damaged	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
<u>Carrying sling</u> missing or damaged to the point that it is not functional	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Muzzle cover ruptured	Minor	Ensure bore is clear of obstructions. Follow local ASP procedure for disposition.	
Rear seal ruptured or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rear seal cracked or damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Major rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place ammunition in a holding area. Follow local ASP procedure for disposition.	
Any part of the weapon missing, damaged, or inoperative (except as otherwise noted)	Major	Place ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

INDIVIDUAL ITEM CHECKLIST

(CONT)

Notes:

- (1) Ensure the lanyard is attached to the transport safety pin and rear carrying sling bracket. The lanyard should be wrapped around the launcher clockwise (as viewed from the rear) and the transport safety pin should be inserted into the retainer hole counterclockwise.*
- (2) Ensure transport safety pin is properly inserted and move the safety lever to the "SAFE" position.*



**Rocket, 66mm, HE M72A7 LAW
(DODIC HA29)**

REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use
WS-33735, Code Ident 01365	Prime Item Product Fabrication Specification for Rocket, Encased SMAW-NE Mark 80 M
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HA21

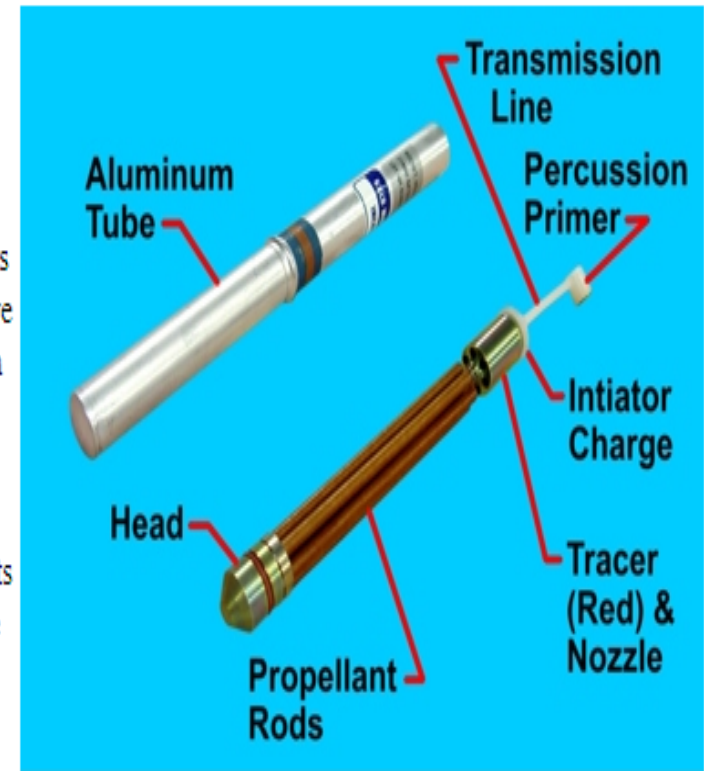
ROCKET ASSEMBLY, 21MM

M72AS LAW TRAINER

Item Description

The 21mm subcaliber Rocket Assembly M72AS Light-weight Anti-armor Weapon (LAW) Trainer (DODIC HA21) was developed for the M72 LAW systems and is designed to match the M72A4, A5, A6 and A7 tactical round ballistic characteristics. This device closely approximates the back blast effects at launch while providing matched ballistics out to a 250 meter range. The trainer rocket has no explosive materials in the projectile and can therefore be used on typical small arms ranges or Military Operation in Urban Terrain (MOUT) training facilities without concern for downrange duds.

The 21mm rocket assembly is packaged separately from the trainer launcher. Trainer rocket components include a solid steel head connected to a nozzle assembly by a threaded rod. Propellant sticks are of the same type and design as used in the tactical round. A percussion initiated rocket igniter is used in the nozzle which also contains a red tracer element visible at the firing position until it burns out at approximately 250 meters.



Rocket Assembly, 21mm, M72AS LAW Trainer
(DODIC HA21)

SAFETY PRECAUTIONS

Safety Precautions

WARNING

To prevent electrostatic discharge a bare trainer rocket should NEVER be handed from one person to another. The trainer rocket should remain in the aluminum storage tube at all times. The trainer rocket propellant is sensitive to helicopter ESD and must remain in the aluminum storage tube while in a helicopter environment.

DODIC HA21 is classified as a 1.4C munitions and is safe to handle using standard precautions.



PACKAGING

Packaging

The packaging configurations for DODIC HA21 are given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container	Pallet
1340-01-482-5049	M72AS LAW Trainer	Individual rockets packaged in sealed aluminum tubes. 72 rockets per wood box. 12 wood boxes per pallet.	Individual rockets packaged in sealed aluminum tubes	72 rockets packaged in a wooden box, separated by foam trays. Trainer rockets packaged with nose end reversed in alternating rows to maintain balanced load.	Wood Pallet/12

PALLET CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Outer Container inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Broken banding or improper banding	Major	Reband pallet	
Improper pallet build (stacked too high or too wide)	Major	Reband pallet with proper stacking of boxes	
Broken boxes on pallet	Major	Proceed to Outer Container inspection and attempt to determine missing information. Correct markings as required. If item is exposed, then remove broken box and inspection item as described in Individual Item inspection	
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined	(2), (3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

Notes:

(1) At a minimum, the markings should include the [DODIC, lot number, NSN, and quantity](#).

(2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.

(3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.

PALLET CHECKLIST (CONT)



OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Individual Item Inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Individual Item inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Individual Item inspection.	(3)
Opened containers or damaged/missing hardware (sallees closures, seals, hinges, etc.) used to secure the outer container	Minor	Proceed to Individual Item inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container with Markings
(DODIC HA21)



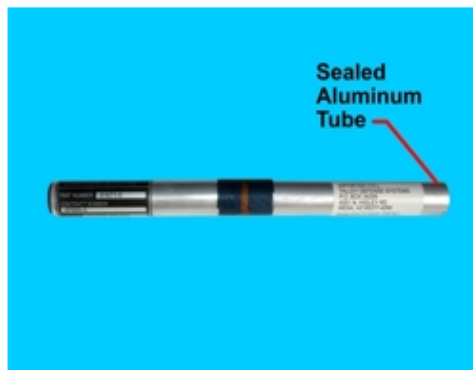
Opened Outer Container
(DODIC HA21)

INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible on the aluminum tube	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect on the aluminum tube	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Crushed or severe punctures that appear to penetrate inner container	Major	Proceed to Individual Item inspection .	(2)
Aluminum tube opened/unsealed	Minor	Proceed to individual item inspection.	
Aluminum tube missing	Major	Follow local ASP procedure for securing ammunition	(2)
Aluminum tube wet/damp, caked with mud or dirt	Minor	Clean and wipe dry if unopened and undamaged. Repack as required. Do not repack wet ammunition.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

Notes:

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedure for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



Inner Container
(DODIC HA21)

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Aluminum tube missing	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(2)
Lot number missing or illegible.	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect.	Minor	Attempt to determine missing information. Follow local ASP procedure for disposition if missing information cannot be determined. Correct markings as required.	(1)
Crushed, torn, or damaged aluminum tube.	Minor	Open packaging and visually inspect ammunition. Repack as required with correct markings if no defect.	(2)
Wet/damp.	Major	Remove packaging and visually inspect ammunition. Do not repack ammunition with wet packaging material.	(2)
Split, cracked, punctured, perforated rounds	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Small dents, wrinkles, and buckles	Minor	Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Minor	Ensure round is free of foreign material that could cause feeding problems. Do not repack wet ammunition. Follow local ASP procedure for disposition if cartridges cannot be cleaned or dried.	
Rusted/corroded cartridge case and/or primer	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rust or corrosion that penetrates the cartridge case	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Projectile loose, improperly seated (low/high/crooked), or damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Primer not flush, loose, cocked (high), floating, or show evidence of being struck	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Primer inverted or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

INDIVIDUAL ITEM CHECKLIST (CONT)

Notes:

- (1) Prior to repackaging and returning to storage, ensure that the markings on the packaging material include the lot number and quantity.*
- (2) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.*



**Rocket Assembly, 21mm
M72AS LAW Trainer
(DODIC HA21)**

REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

WS-33735, Code Ident 01365

Prime Item Product Fabrication Specification for Rocket, Encased SMAW-NE Mark 80 Mod 0

SHOULDER-LAUNCHED MULTI-PURPOSE ASSAULT WEAPON

- HA08 •Rocket and Launcher, 83mm HEDP Bunker Defeat Munition (BDM), M141 (SMAW-D)
- HA34 •Rocket, 83mm NE, MK 80 Mod 0 (SMAW)
- HX05 •Rocket, 83mm Assault MK3 Mod 0 (SMAW)
- HX06 •Rocket, 83mm HEAA MK6 Mod 0 (SMAW)
- HX07 •Rocket, 83mm HEAA Practice MK7 Mod 0 (SMAW)

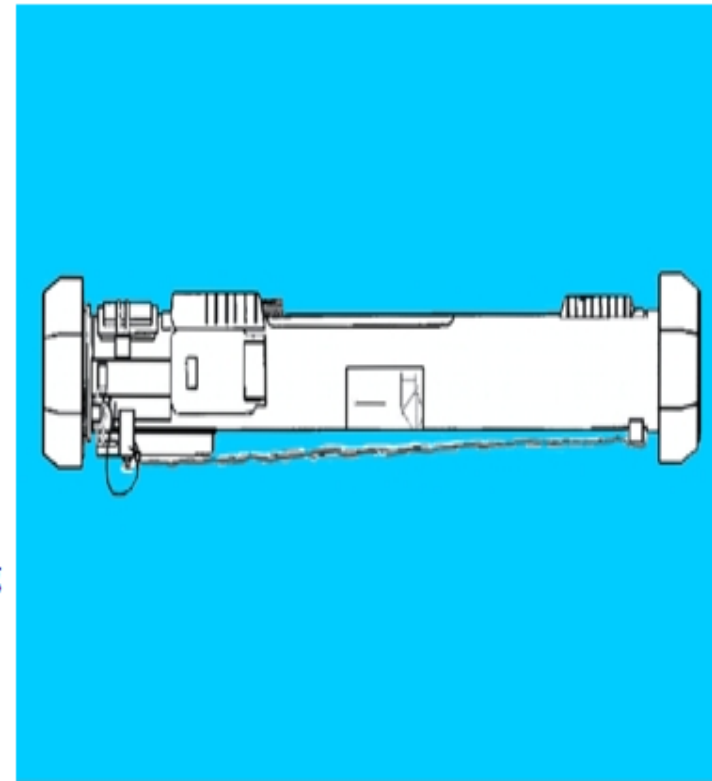
HA08

ROCKET AND LAUNCHER, 83MM HEDP BUNKER DEFEAT MUNITION, M141 (SMAW-D)

Item Description

The Rocket and Launcher, 83mm HEDP Bunker Defeat Munition (BDM) M141 SMAW-D (DODIC HA08) is a self-contained, lightweight, man-portable, shoulder-fired, high explosive multipurpose munition. It consists of an 83mm high explosive dual mode rocket sealed in an expendable launcher that also serves as a storage container. All propulsion occurs within the launch tube.

The launcher comes complete with firing mechanism, shoulder stop, transportation locking pin, carrying sling, integral alternate sight mounting rail, bumpers, and front and rear pop-up sights. After removal of the transportation safety pin, the tube release button unlocks the rear (inner) tube so it may be extended and locked into the ready-to-fire position or closed to provide a short length carry configuration. A firing mechanism cover arms the weapon when fully opened and exposes the safety button and trigger button. The SMAW-D is issued as a complete round of ammunition and is right-hand fired only.



**SMAW-D
(DODIC HA08)**

SAFETY PRECAUTIONS

Safety Precautions

WARNING

To prevent injury or death, ensure the Transport Safety Pin is in place prior to handling. If the Transport Safety Pin is missing, notify the OIC/NCOIC immediately.

The DODIC HA08 is classified as 1.1E munitions and is safe to handle using standard precautions. Care should be taken during handling to not separate the Transport Safety Pin from the launcher.



PACKAGING

Packaging

The packaging configurations for DODIC HA08 are given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container
1340-01-443-5477	M141	One round per metal ammo container. Twenty-five metal ammo containers per pallet.	None	Metal ammo container for each individual rocket or unit.

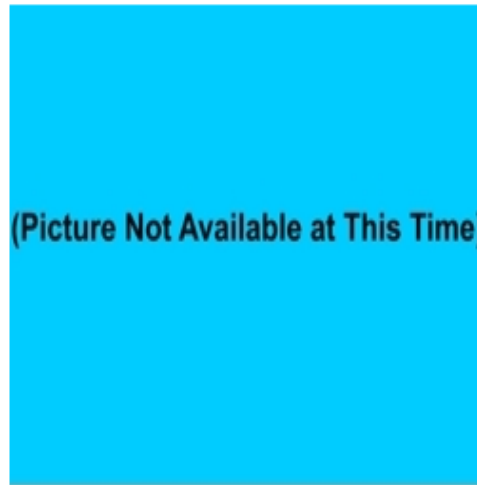
OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Individual Item Inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container Inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item Inspection. Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate outer container, crushed container	Major	Proceed to Individual Item Inspection.	(3)
Shallow punctures, corrosion, other cosmetic damage	Minor	Proceed to Individual Item Inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, hasps, etc.) used to secure the outer container	Minor	Proceed to Individual Item Inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

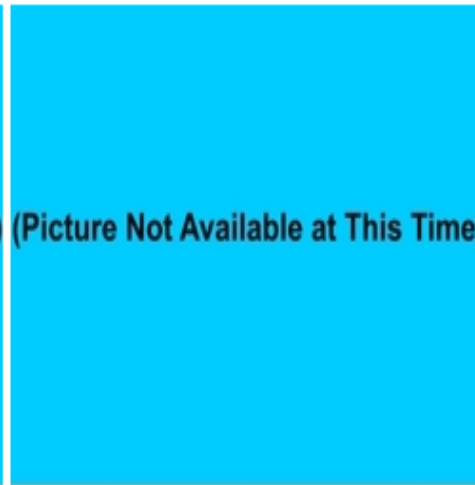
Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.*
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, or anything other than original or standard ammunition containers.*
- (3) Follow local operating procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.*



(Picture Not Available at This Time)

**Outer Container with Markings
(DODIC HA08)**



(Picture Not Available at This Time)

**Opened Outer Container
(DODIC HA08)**

INNER CONTAINER CHECKLIST

Inner Container

The Rocket and Launcher, 83mm HEDP Bunker Defeat Munition (BDM) M141 SMAW-D is not packed in an inner container. There are no inspection criteria for inner container for DODIC HA08.

INDIVIDUAL ITEM CHECKLIST

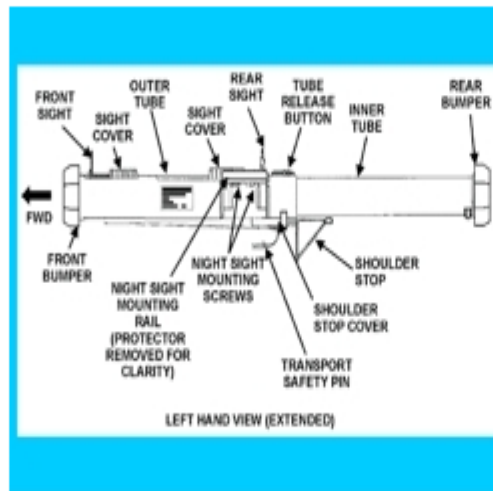
Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure for disposition if lot/serial number cannot be determined.	
Serial number missing or illegible	Major	Follow local ASP procedure for disposition.	
Other markings or warning labels missing, illegible, or incorrect	Major	Follow local ASP procedure for disposition.	
Transport safety pin missing	Critical	Notify OIC/NCOIC immediately.	
Transport safety pin lanyard missing or damaged	Critical	Ensure safety pin is securely in place. Replace lanyard if possible. Notify OIC/NCOIC immediately.	(1)
Front/rear sight covers or sight assemblies damaged or missing	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Launch tube perforated, broken, cracked, crazed, dented, bent, or gouged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Tube release cover torn or missing	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Firing mechanism cover broken or missing.	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Night sight mounting rail broken or missing.	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Shoulder stop broken or damaged	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Carrying sling missing or damaged to the point that it is not functional	Minor	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Muzzle cover ruptured	Minor	Ensure bore is clear of obstructions. Follow local ASP procedure for disposition.	(2)
Rear seal ruptured or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rear seal cracked or damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Major rust or corrosion	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Wet/damp, caked with mud or dirt	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Any part of the weapon missing, damaged, or inoperative (except as otherwise noted)	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
No defects	N/A	Repack the ammunition. Follow local ASP procedures for securing the ammunition for storage.	

INDIVIDUAL ITEM CHECKLIST

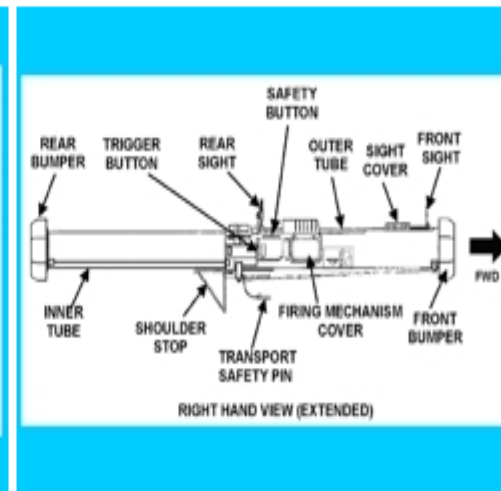
(CONT)

Notes:

- (1) Ensure transport safety pin is properly inserted.
- (2) Inspect inside the tube for foreign objects and attempt to remove.



**Extended Left Hand View
(DODIC HA08)**



**Extended Right Hand View
(DODIC HA08)**

REFERENCES

MIL-STD-1168B	Ammunition Lot Numbering and Ammunition Data Card
NAVSEA OP 5 Vol 1	Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping
NAVSEA SW020-AC-SAF-010	Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material
ORDAMMO-813-3.7	Packaging Digest for Marine Corps Class V (W) Material
TM 9-1340-228-10	Operator's Manual Rocket and Launcher 83mm HEDP Bunker Defeat Munition (BDM). M141 NSN 1340-01-443-5477
TW024-AA-ORD-010 (NAR)	Ammunition Unserviceable, Suspended and Limited Use

HA34

ROCKET AND LAUNCHER, 83MM NE MK 80 MOD 0(SMAW)

Item Description

The Rocket, 83mm Novel Explosive (NE) MK 80 Mod 0 (SMAW) (DODIC HA34) is designed for use against earth and timber bunkers and solid concrete/triple brick walls, it also has the capability to penetrate solid brick, brick faced hollow block, and other light clad walls to detonate on the back side. The rocket is an unguided, enhanced blast explosive rocket contained in a disposable one-shot rocket container. The container protects the rocket during storage, transportation, and field handling. It also functions as an integral part of the launcher in the weapon configuration. The encased rocket is mated to the launcher both mechanically and electrically with one simple twist locking motion. The six 9mm spotting rounds, located in a magazine stored on the front-end cap, are used to enhance the first round hit probability of the rocket. After firing the rocket, the encasement is removed and discarded.

(Photo Not Available at This Time)

Rocket, 83MM NE MK 80 MOD 0 (SMAW)
(DODIC HA34)

SAFETY PRECAUTIONS

Safety Precautions

WARNING

Ensure that the front-end cap is properly secured to the rocket casement during handling. Notify OIC/NCOIC if rockets are returned without the front-end caps.

The DODIC HA34 ammunition is classified as 1.1E munitions and is safe to handle using standard precautions. Follow local ASP procedure for handling electrically initiated ammunitions when inspecting the individual rounds.



PACKAGING

Packaging

The packaging configurations for DODIC HA34 are given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container
1340-01-502-0809	MK 80 Mod 0	Packaged 2 rockets/foam box in barrier bag in fiberboard box, 2 boxes/wooden box, 4 boxes/wood pallet	2/Fiberboard Box	4/Wooden Box

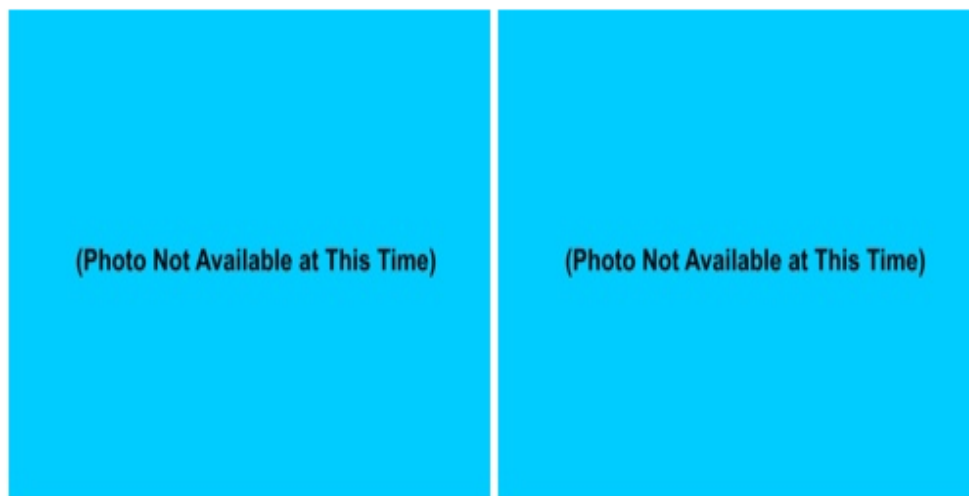
OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.*
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.*
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.*



**Outer Container with Markings
(DODIC HA34)**

**Opened Outer Container
(DODIC HA34)**

INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible on the fiberboard box and/or barrier bag	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect on the fiberboard box and/or barrier bag	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Crushed or severe punctures that appear to penetrate inner container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp fiberboard box, caked with mud or dirt	Minor	Open fiberboard box and check barrier bag integrity. Follow local ASP procedure for securing the ammunition if barrier bag is intact.	(2)
Fiberboard box missing	Minor	Replace if possible. If not, follow local ASP procedure for securing the ammunition.	(2)
Fiberboard box opened	N/A	Reseal fiberboard box if barrier bag is intact.	
Barrier bag opened, torn, missing	Minor	Proceed to individual item inspection.	
Barrier bag wet/damp, caked with mud or dirt	Minor	Clean and wipe dry if unopened and undamaged. Repack as required. Do not repack wet ammunition.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

Notes:

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedure for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Rocket casement severely chipped, dented, or cracked	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Front end cap missing or damaged	Critical	Replace with a serviceable front-end cap if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Foreign material inside casement	Critical	Remove foreign material if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Electrical contacts broken or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Shunting ring missing from front-end cap	Critical	Replace with a new or used serviceable front-end cap if possible. If not, follow local ASP procedure for disposition.	(1)
Locking tabs on rocket casement or end cap missing or damaged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Warhead damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Magazine missing or damaged	Major	Discard damaged magazine and replace, keeping the same spotting rounds, if possible. Follow local ASP procedure for disposition.	
Spotting round(s) missing	Major	There should be six spotting rounds per magazine. Follow local ASP procedure for disposition	
Spotting round(s) damaged	Major	Place defective spotting round(s) in a holding area. Follow local ASP procedure for disposition.	
Lot number, missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure if lot number cannot be determined.	(2)

INDIVIDUAL ITEM CHECKLIST

(CONT)

Rear cover missing or damaged	Major	Check rear rocket casement if serviceable and free of debris. Follow local ASP procedure for disposition.	(3)
Rust/corrosion on magazine	Minor	Follow local ASP procedure for disposition.	
Front and rear shock absorbers damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
Carrying sling damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
Foam containers damaged or missing	Minor	Replace if possible.	(4)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack ammunition. Follow local ASP procedure for securing the ammunition for storage.	

Notes:

- (1) Ensure electrical contacts are shunted to prevent accidental rocket ignition if front-end cap cannot be replaced.
- (2) Prior to repackaging and returning to storage, ensure that the lot number match the inner/outer containers.
- (3) The rocket can be issued for training if no other defects found.
- (4) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.

REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

WS-33735, Code Ident 01365

Prime Item Product Fabrication Specification for Rocket, Encased SMAW-NE Mark 80 Mod 0

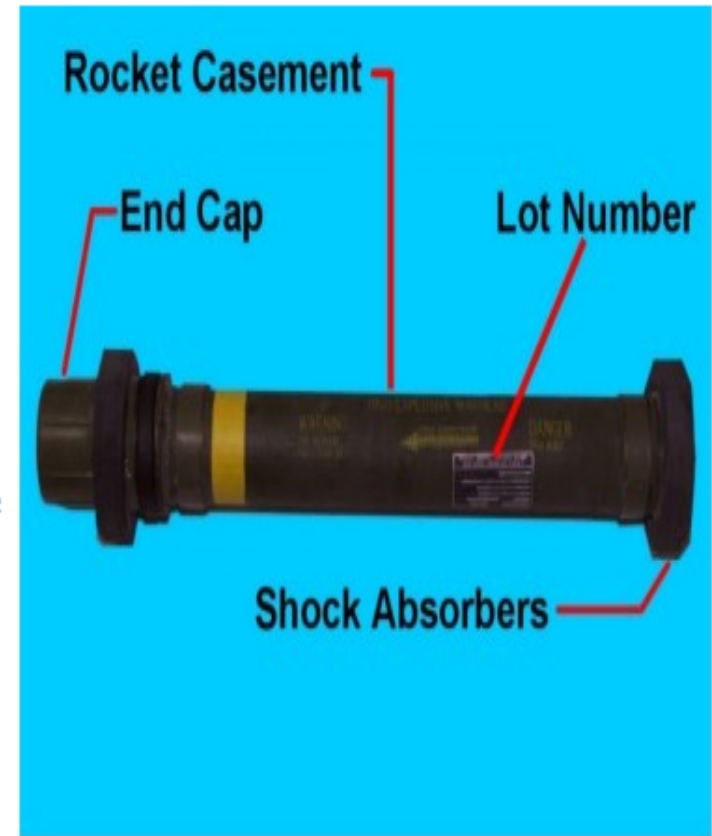
HX05

ROCKET, 83MM ASSAULT

MK3 MOD 0(SMAW)

Item Description

The Rocket, 83mm Assault MK3 Mod 0 (SMAW) (DODIC HX05) is designed especially for use against reinforced concrete, sandbag and timber bunkers, brick and block walls, and lightly armored vehicles. The [SMAW](#) is an unguided, dual mode, high explosive rocket contained in a disposable one-shot rocket container. The container protects the rocket during storage, transportation, and field handling. It also functions as an integral part of the launcher in the weapon configuration. The encased rocket is mated to the launcher both mechanically and electrically with one simple twist locking motion. The six 9mm spotting rounds, located in a magazine stored inside the front-end cap, are used to enhance the first round struck probability of the rocket. The spotting rounds and the rocket are ballistically matched. After firing the rocket, the encasement is removed and discarded.



Rocket, 83mm Assault MK3 Mod 0 SMAW
(DODIC HX05)

SAFETY PRECAUTIONS

Safety Precautions

WARNING

Ensure that the front-end cap is properly secured to the rocket casement during handling. Notify OIC/NCOIC if rockets are returned without the front-end caps.

The DODIC HX05 ammunition is classified as 1.1E munitions and is safe to handle using standard precautions. Follow local ASP procedure for handling electrically initiated ammunitions when inspecting the individual rounds.



PACKAGING

Packaging

The packaging configurations for DODIC HX05 are given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container
1340-01-158-0577	MK3 Mod 0	Packaged 3 rockets/foam box in barrier bag in fiberboard box, 2 boxes/wirebound wood box , 4 boxes/wood pallet	3/Fiberboard Box	6/Wooden Box

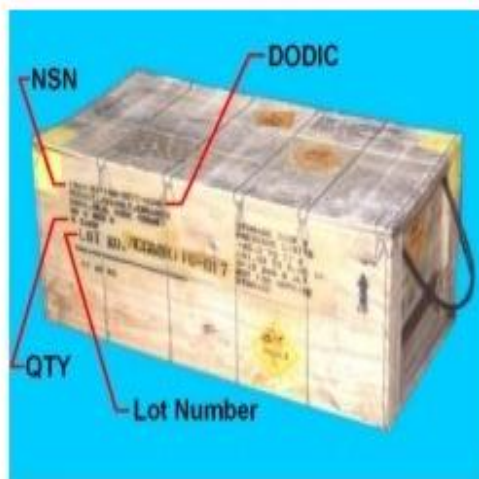
OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
Opened containers or damaged/missing hardware (sallees closures, seals, hinges, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

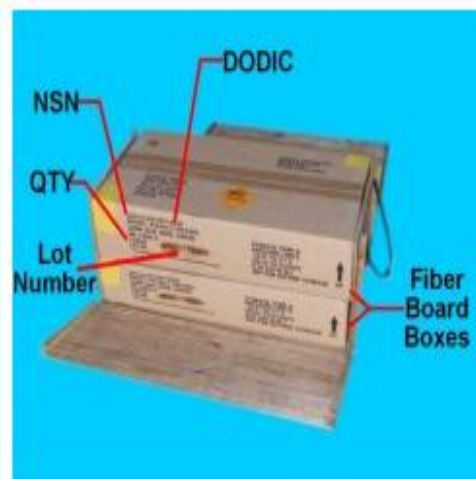
OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container with Markings
(DODIC HX05)



Opened Outer Container
(DODIC HX05)

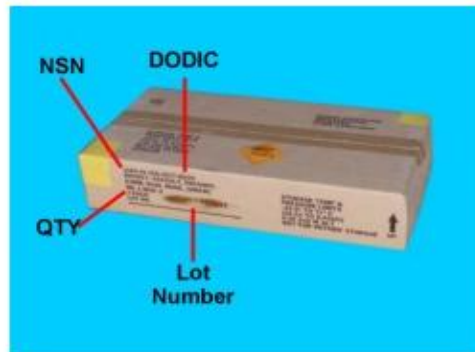
INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible on the fiberboard box and/or barrier bag	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect on the fiberboard box and/or barrier bag	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Crushed or severe punctures that appear to penetrate inner container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp fiberboard box, caked with mud or dirt	Minor	Open fiberboard box and check barrier bag integrity. Follow local ASP procedure for securing the ammunition if barrier bag is intact.	(2)
Fiberboard box missing	Minor	Replace if possible. If not, follow local ASP procedure for securing the ammunition.	(2)
Fiberboard box opened	N/A	Reseal fiberboard box if barrier bag is intact.	
Barrier bag opened, torn, missing	Minor	Proceed to individual item inspection.	
Barrier bag wet/damp, caked with mud or dirt	Minor	Clean and wipe dry if unopened and undamaged. Repack as required. Do not repack wet ammunition.	
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

INNER CONTAINER CHECKLIST (CONT)

Notes:

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedure for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



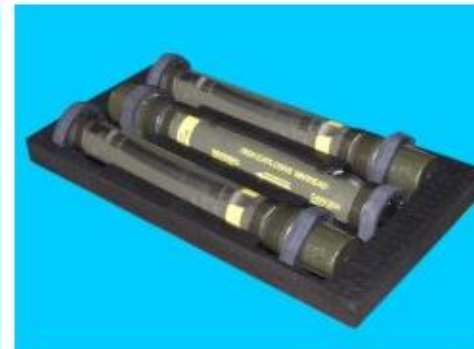
Inner Container with markings
(DODIC HX05)



Opened Inner Container
(DODIC HX05)



Item Packaging
(DODIC HX05)



Rockets in Foam Mold
(DODIC HX05)

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Rocket casement severely chipped, dented, or cracked	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Front end cap missing or damaged	Critical	Replace with a serviceable front-end cap if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Warhead damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Locking tabs on rocket casement or end cap missing or damaged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Shunting ring missing from front-end cap	Critical	Replace with a new or used serviceable front-end cap if possible. If not, follow local ASP procedure for disposition.	(1)
Electrical contacts broken or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Magazine missing or damaged	Major	Discard damaged magazine and replace, keeping the same spotting rounds, if possible. Follow local ASP procedure for disposition.	
Rust/corrosion on magazine	Minor	Follow local ASP procedure for disposition.	
Spotting round(s) missing	Major	There should be six spotting rounds per magazine. Follow local ASP procedure for disposition	
Spotting round(s) damaged	Major	Place defective spotting round(s) in a holding area. Follow local ASP procedure for disposition.	
Lot number , missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure if lot number cannot be determined.	(2)
Warning marks missing or illegible	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Foreign material inside casement	Critical	Remove foreign material if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rear cover missing or damaged	Major	Check rear rocket casement if serviceable and free of debris. Follow local ASP procedure for disposition.	(3)

INDIVIDUAL ITEM CHECKLIST

(CONT)

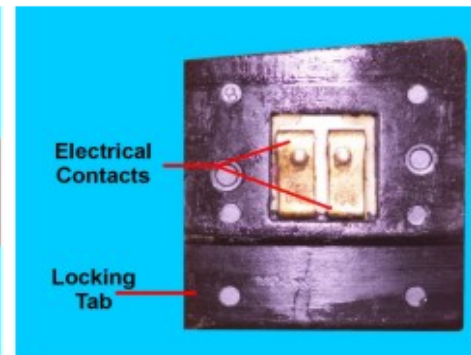
Rear cover missing or damaged	Major	Check rear rocket casement if serviceable and free of debris. Follow local ASP procedure for disposition.	(3)
Front and rear <u>shock absorbers</u> damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
<u>Carrying sling</u> damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition	
<u>Foam containers</u> damaged or missing	Minor	Replace if possible.	(4)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack ammunition. Follow local ASP procedure for securing the ammunition for storage.	

Notes:

- (1) Ensure electrical contacts are shunted to prevent accidental rocket ignition if front-end cap cannot be replaced.
- (2) Prior to repackaging and returning to storage, ensure that the lot number match the inner/outer containers.
- (3) The rocket can be issued for training if no other defects found.
- (4) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced



**Carrying Sling
(DODIC HX05)**



**Electrical Contacts
(DODIC HX05)**

INDIVIDUAL ITEM CHECKLIST (CONT)



Warhead
(DODIC HX05)



End Cap Locking Tabs
(DODIC HX05)



Magazine and Spotting Rounds
(DODIC HX05)



Rear Cover
(DODIC HX05)

REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

WS-33735, Code Ident 01365

Prime Item Product Fabrication Specification for Rocket, Encased SMAW-NE Mark 80 Mod 0

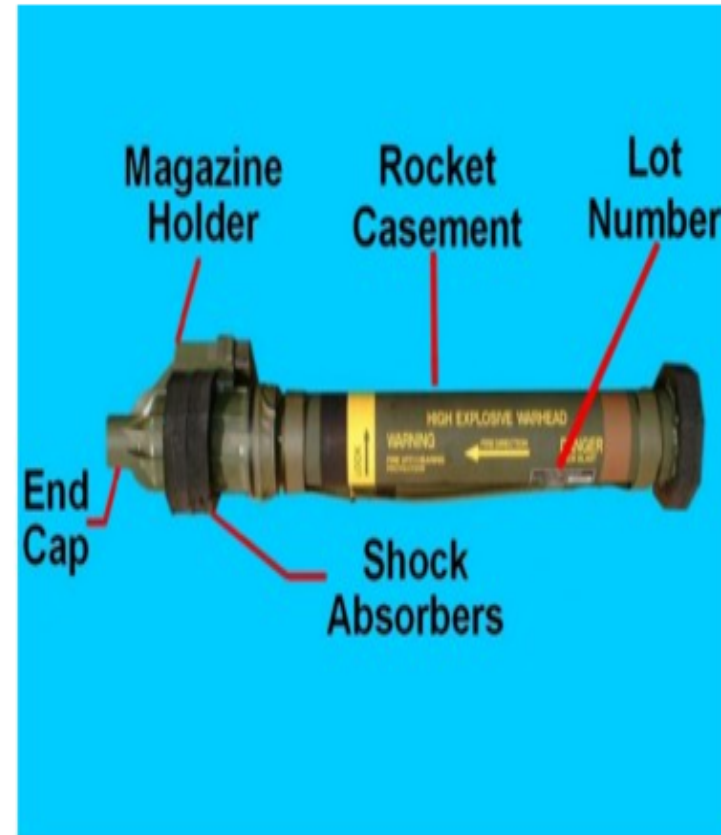
HX06

ROCKET, 83MM HEAA

MK6 MOD 0(SMAW)

Item Description

The Rocket, 83mm High-Explosive Anti-Armor (HEAA) MK6 Mod 0 ([SMAW](#)) (DODIC HX06) is designed especially for use against main battle tanks and other armored vehicles. The rocket is an unguided, high explosive anti-armor rocket contained in a disposable one-shot rocket container. The container protects the rocket during storage, transportation, and field handling. It also functions as an integral part of the launcher in the weapon configuration. The encased rocket is mated to the launcher both mechanically and electrically with one simple twist locking motion. The six 9mm spotting rounds, located in a magazine stored on the front-end cap, are used to enhance the first round struck probability of the rocket. The spotting rounds and the rocket are ballistically matched. After firing the rocket, the encasement is removed and discarded.



Rocket, 83mm High Explosive Anti-Armor MK6
Mod 0 SMAW (DODIC HX06)

SAFETY PRECAUTIONS

Safety Precautions

WARNING

Ensure that the front-end cap is properly secured to the rocket casement during handling. Notify OIC/NCOIC if rockets are returned without the front-end caps.

The DODIC HX06 ammunition is classified as 1.1E munitions and is safe to handle using standard precautions. Follow local ASP procedure for handling electrically initiated ammunitions when inspecting the individual rounds.



PACKAGING

Packaging

The packaging configuration for DODIC HX06 is given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container
1340-01-227-8870	MK6 Mod 0	Packaged 3 rockets/foam box in barrier bag in fiberboard box, 2 boxes/wooden box, 4 boxes/wood pallet	3/Fiberboard Box	6/Wooden Box

OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container with Markings
(DODIC HX06)



Opened Outer Container
(DODIC HX06)

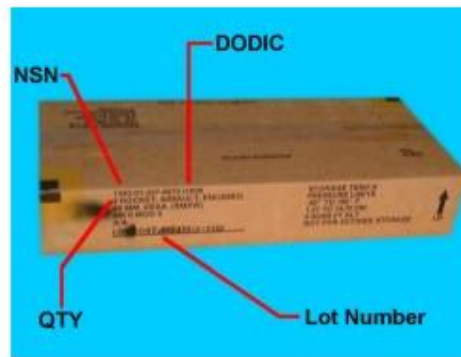
INNER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible on the fiberboard box and/or barrier bag	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect on the fiberboard box and/or barrier bag	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Crushed or severe punctures that appear to penetrate inner container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp fiberboard box, caked with mud or dirt	Minor	Open fiberboard box and check barrier bag integrity. Follow local ASP procedure for securing the ammunition if barrier bag is intact.	(2)
Fiberboard box missing	Minor	Replace if possible. If not, follow local ASP procedure for securing the ammunition.	(2)
Fiberboard box opened	N/A	Reseal fiberboard box if barrier bag is intact.	
Barrier bag opened, torn , missing	Minor	Proceed to individual item inspection.	
Barrier bag wet/damp, caked with mud or dirt	Minor	Clean and wipe dry if unopened and undamaged. Repack as required. Do not repack wet ammunition.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

INNER CONTAINER CHECKLIST (CONT)

Notes:

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedure for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



Inner Container with Markings
(DODIC HX06)



Opened Inner Container
(DODIC HX06)



Item Packaging
(DODIC HX06)



Rockets in Foam Mold
(DODIC HX06)

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Rocket casement severely chipped, dented, or cracked	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Front end cap missing or damaged	Critical	Replace with a serviceable front-end cap if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Warhead damaged	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Electrical contacts broken or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Shunting ring missing from front-end cap	Critical	Replace with a new or used serviceable front-end cap if possible. If not, follow local ASP procedure for disposition.	(1)
Locking tabs on rocket casement or end cap missing or damaged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Magazine missing or damaged	Major	Discard damaged magazine and replace, keeping the same spotting rounds, if possible. Follow local ASP procedure for disposition.	
Rust/corrosion on magazine	Minor	Follow local ASP procedure for disposition.	
Spotting round(s) missing	Major	There should be six spotting rounds per magazine. Follow local ASP procedure for disposition	
Spotting round(s) damaged	Major	Place defective spotting round(s) in a holding area. Follow local ASP procedure for disposition.	
Lot number , missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure if lot number cannot be determined.	(2)

INDIVIDUAL ITEM CHECKLIST

(CONT)

<u>Warning marks</u> missing or illegible	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Foreign material inside casement	Critical	Remove foreign material if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rear cover missing or damaged	Major	Check rear rocket casement if serviceable and free of debris. Follow local ASP procedure for disposition.	(3)
Front and rear <u>shock absorbers</u> damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
<u>Carrying sling</u> damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
<u>Foam containers</u> damaged or missing	Minor	Replace if possible.	(4)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack ammunition. Follow local ASP procedure for securing the ammunition for storage.	

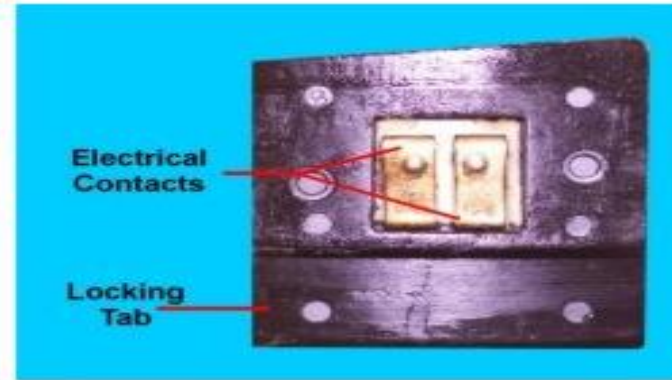
Notes:

- (1) Ensure electrical contacts are shunted to prevent accidental rocket ignition if front-end cap cannot be replaced.
- (2) Prior to repackaging and returning to storage, ensure that the lot number match the inner/outer containers.
- (3) The rocket can be issued for training if no other defects found.
- (4) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.

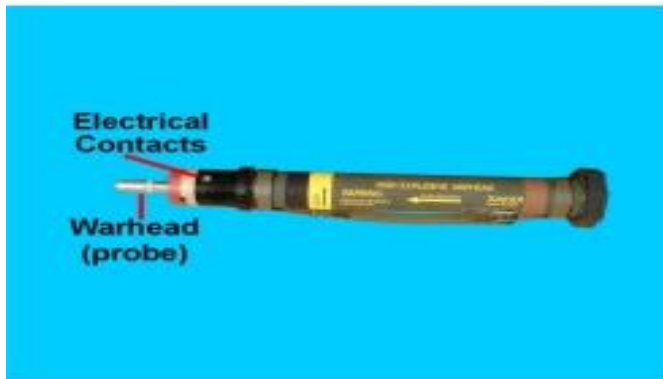
INDIVIDUAL ITEM CHECKLIST (CONT)



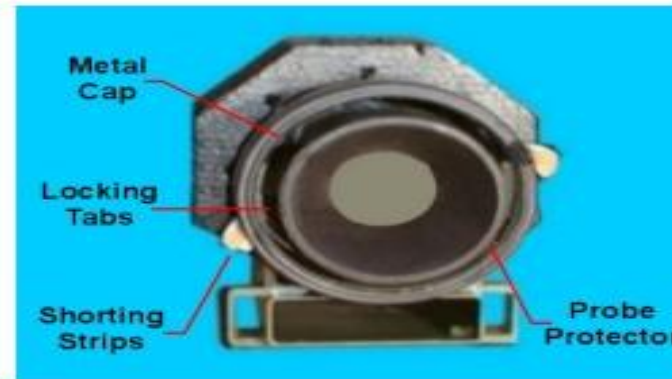
Carrying Sling
(DODIC HX06)



Electrical Contacts
(DODIC HX06)



Warhead (Probe)
(DODIC HX06)



End Cap Locking Tabs
(DODIC HX06)

INDIVIDUAL ITEM CHECKLIST (CONT)



Magazine and Spotting Rounds
(DODIC HX06)

REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

WS-33735, Code Ident 01365

Prime Item Product Fabrication Specification for Rocket, Encased SMAW-NE Mark 80 Mod 0

HX07

ROCKET, 83MM HEAA PRACTICE

MK7 MOD 0(SMAW)

Item Description

The Rocket, 83mm High-Explosive Anti-Armor (HEAA) Practice MK7 Mod 0 (SMAW) (DODIC HX07) Rocket is designed as a practice round for DODICs [HX05](#) and [HX06 SMAW](#) rockets. The rocket is an unguided, practice rocket contained in a disposable one-shot rocket container. The container protects the rocket during storage, transportation, and field handling. It also functions as an integral part of the launcher in the weapon configuration. The encased rocket is mated to the launcher both mechanically and electrically with one simple twist locking motion. The six 9mm spotting rounds, located in a magazine stored on the front-end cap, are used to enhance the first round struck probability of the rocket. The spotting rounds and the rocket are ballistically matched.



Rocket, 83mm High Explosive Anti-Armor Practice MK7 Mod 0 SMAW (DODIC HX07)

SAFETY PRECAUTIONS

Safety Precautions

WARNING

Ensure that the front-end cap is properly secured to the rocket casement during handling. Notify OIC/NCOIC if rockets are returned without the front-end caps.

The DODIC HX07 is classified as 1.1C munitions and is safe to handle using standard precautions. Follow local ASP procedure for handling electrically initiated ammunitions when inspecting the individual rounds.



PACKAGING

Packaging

The packaging configuration for DODIC HX07 is given in the Packaging Configuration Table below.

Packaging Configuration Table

NSN	Model	Packaging	Inner Container	Outer Container
1340-01-227-8871	MK7 Mod 0	Packaged 3 rockets/foam box in barrier bag in fiberboard box, 2 boxes/wooden box, 4 boxes/wood pallet	3/Fiberboard Box	6/Wooden Box

OUTER CONTAINER CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Lot number missing or illegible	Major	Proceed to Inner Container inspection and attempt to determine missing information. Follow local ASP procedures for disposition if correct lot number cannot be determined. Correct markings as required.	(1)
Other markings missing, illegible, or incorrect	Minor	Proceed to Inner Container inspection and attempt to determine missing information. Correct markings as required.	(1)
Ammunition returned in non-standard or unauthorized containers	Major	Proceed to Individual Item inspection . Discard and replace with authorized ammunition container prior to storage. Follow local ASP procedure for disposition if lot number cannot be determined.	(2), (3)
Severe punctures that appear to penetrate container, crushed container	Major	Proceed to Inner Container inspection.	(3)
Shallow punctures, splintered wood, water damage, dry rot, other cosmetic damage	Minor	Proceed to Inner Container inspection.	(3)
Opened containers or damaged/missing hardware (sallee closures, seals, hinges, etc.) used to secure the outer container	Minor	Proceed to Inner Container inspection.	(3)
No defects	N/A	Follow local ASP procedures for securing the ammunition for storage.	

OUTER CONTAINER CHECKLIST (CONT)

Notes:

- (1) At a minimum, the markings should include the DODIC, lot number, NSN, and quantity.
- (2) Non-standard or unauthorized containers may include MRE boxes, coffee cans, cardboard boxes, etc., or anything other than original or standard ammunition containers.
- (3) Follow local ASP procedures for securing and storing the ammunition if the outer container is missing or unserviceable and cannot be replaced.



Outer Container with Markings
(DODIC HX07)



Opened Outer Container
(DODIC HX07)

INNER CONTAINER CHECKLIST

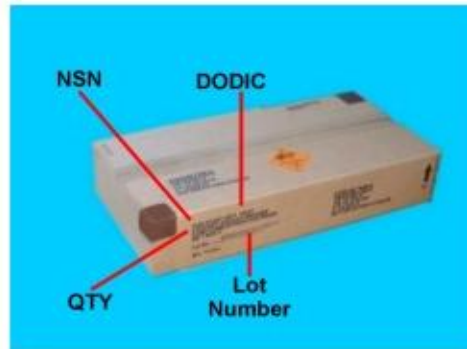
Defect Description	Defect Category	Recommended Action	Notes
<u>Lot number</u> missing or illegible on the fiberboard box and/or barrier bag	Major	Proceed to Individual Item inspection and attempt to determine missing information. Follow local ASP procedure for disposition if lot number cannot be determined. Correct markings as required.	(1)
<u>Other markings</u> missing, illegible, or incorrect on the fiberboard box and/or barrier bag	Minor	Proceed to Individual Item inspection and attempt to determine missing information. Correct markings as required.	(1)
Crushed or severe punctures that appear to penetrate inner container	Major	Proceed to Individual Item inspection.	(2)
Wet/damp fiberboard box, caked with mud or dirt	Minor	Open fiberboard box and check barrier bag integrity. Follow local ASP procedure for securing the ammunition if barrier bag is intact.	(2)
Fiberboard box missing	Minor	Replace if possible. If not, follow local ASP procedure for securing the ammunition.	(2)
Fiberboard box opened	N/A	Reseal fiberboard box if barrier bag is intact.	
Barrier bag opened, torn, missing	Minor	Proceed to individual item inspection.	
Barrier bag wet/damp, caked with mud or dirt	Minor	Clean and wipe dry if unopened and undamaged. Repack as required. Do not repack wet ammunition.	
No defects	N/A	Follow local ASP procedure for securing ammunition.	

INNER CONTAINER CHECKLIST

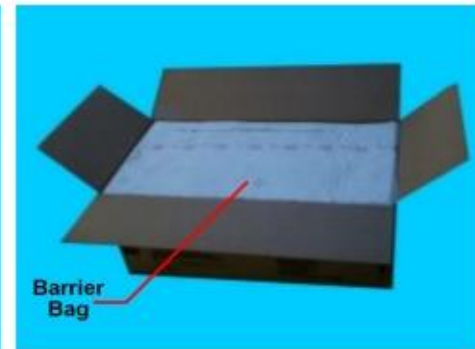
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Notes:

- (1) Prior to repackaging and returning to storage, ensure that the DODIC, lot number, NSN, and quantity on the inner containers match the markings on the outer container.
- (2) Follow local ASP procedure for securing and storing the ammunition if the inner container is missing or unserviceable and cannot be replaced.



Inner Container with Markings
(DODIC HX07)



Opened Inner Container
(DODIC HX07)



Item Packaging
(DODIC HX07)



Rockets in Foam Mold
(DODIC HX07)

INDIVIDUAL ITEM CHECKLIST

Defect Description	Defect Category	Recommended Action	Notes
Rocket casement severely chipped, dented, or cracked	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Front end cap missing or damaged	Critical	Replace with a serviceable front-end cap if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Warhead damaged	Minor	Follow local ASP procedure for disposition.	
Electrical contacts broken or missing	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Shunting ring missing from front-end cap	Critical	Replace with a new or used serviceable front-end cap if possible. If not, follow local ASP procedure for disposition.	(1)
Locking tabs on rocket casement or end cap missing or damaged	Critical	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	(1)
Magazine missing or damaged	Major	Discard damaged magazine and replace, keeping the same spotting rounds, if possible. Follow local ASP procedure for disposition.	
Rust/corrosion on magazine	Minor	Follow local ASP procedure for disposition.	
Spotting round(s) missing	Major	There should be six spotting rounds per magazine. Follow local ASP procedure for disposition.	
Spotting round(s) damaged	Major	Place defective spotting round(s) in a holding area. Follow local ASP procedure for disposition.	
Lot number , missing or illegible	Major	Attempt to determine missing information. Follow local ASP procedure if lot number cannot be determined.	(2)
Warning marks missing or illegible	Major	Place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Foreign material inside casement	Critical	Remove foreign material if possible. If not, place defective ammunition in a holding area. Follow local ASP procedure for disposition.	
Rear cover missing or damaged	Major	Check rear rocket casement if serviceable and free of debris. Follow local ASP procedure for disposition.	(3)
Front and rear shock absorbers damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
Carrying sling damaged or missing	Minor	Repair or replace if possible. If not, follow local ASP procedure for disposition.	
Foam containers damaged or missing	Minor	Replace if possible.	(4)
Non-unit pack	N/A	Follow local ASP procedure for securing a light box.	
No defects	N/A	Repack ammunition. Follow local ASP procedure for securing the ammunition for storage.	

INDIVIDUAL ITEM CHECKLIST

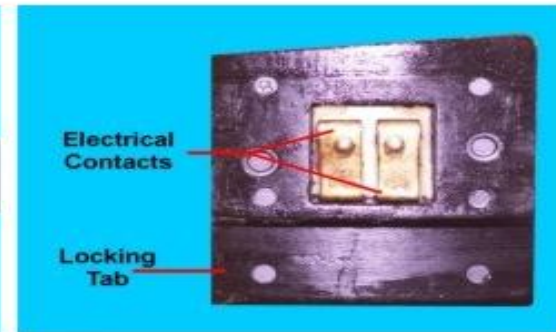
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Notes:

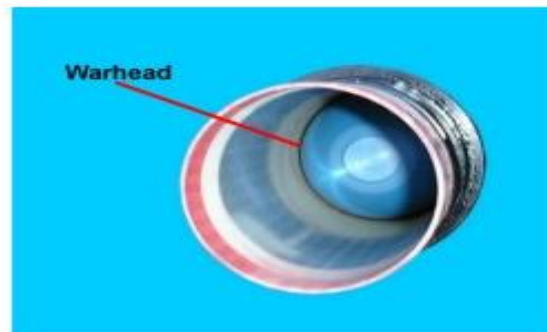
- (1) Ensure electrical contacts are shunted to prevent accidental rocket ignition if front-end cap cannot be replaced.
- (2) Prior to repackaging and returning to storage, ensure that the lot number match the inner/outer containers.
- (3) The rocket can be issued for training if no other defects found.
- (4) Follow local ASP procedures for securing and storing the ammunition if the packing material is missing or unserviceable and cannot be replaced.



Carrying Sling
(DODIC HX07)



Electrical Contacts
(DODIC HX07)

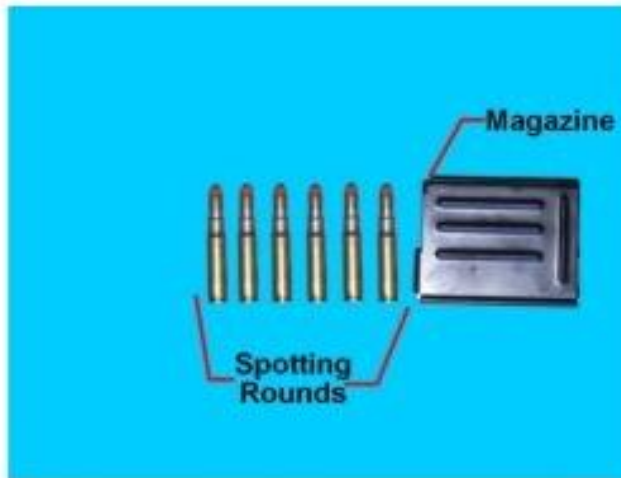


Warhead
(DODIC HX07)



End Cap Locking Tabs
(DODIC HX07)

INDIVIDUAL ITEM CHECKLIST (CONT)



Magazine and Spotting Rounds
(DODIC HX07)



Rear Cover
(DODIC HX07)

REFERENCES

MIL-STD-1168B

Ammunition Lot Numbering and Ammunition Data Card

NAVSEA OP 5 Vol 1

Ammunition and Explosives Ashore Safety Regulations for Handling, Storing, Production, Renovation and Shipping

NAVSEA SW020-AC-SAF-010

Transportation and Storage for Ammunition, Explosives, and Related Hazardous Material

ORDAMMO-813-3.7

Packaging Digest for Marine Corps Class V (W) Material

TW024-AA-ORD-010 (NAR)

Ammunition Unserviceable, Suspended and Limited Use

WS-22477B

Prime Item Product Fabrication Specification for Rocket, Assault, Encased, 83mm, Common Practice (SMAW), Mark 7 Mod 0